

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number  
**WO 2005/047866 A1**

(51) International Patent Classification<sup>7</sup>: G01N 1/28,  
C12M 3/08, B02C 19/08

(21) International Application Number:  
PCT/IE2004/000152

(22) International Filing Date:  
8 November 2004 (08.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2003/0856 14 November 2003 (14.11.2003) IE

(71) Applicant (for all designated States except US): ENFER  
TECHNOLOGY [IE/IE]; Block A, Earlsfort Centre,  
Earlsfort Terrace, Dublin 2 (IE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CLARKE, John  
[IE/IE]; 27 Hillcrest Park, Ballinasloe, County Galway

(IE). LE FEUVRE, Peter [GB/GB]; Caledonia, Mare  
de Carteret, Castel, Guernsey GY5 7XA (GB). INDER,  
David [GB/GB]; 1 Woodstock Gardens, Tertre Lane, Vale,  
Guernsey GY3 5QX (GB).

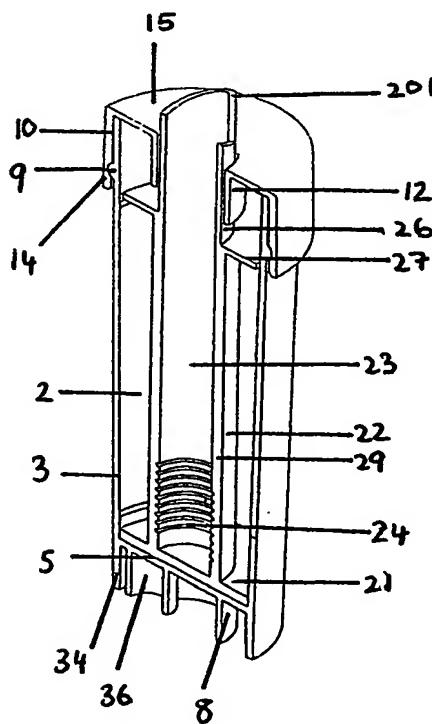
(74) Agents: GATES, Marie, Christina, Esther et al.;  
Tomkins & Co., 5 Dartmouth Road, Dublin 6 (IE).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: SAMPLE HOMOGENISER



(57) Abstract: An apparatus for comminuting or homogenising biological tissue, comprising a container (1) with an interior bottom (5) comprised of an abrasive surface (6) a cap (10), and a grinder (20) receivable in the interior (2) of the container (1). Wherein the grinder (20) comprises a grinding head (21) and a cylindrical shaft (22) having an interior channel (23) defined therein; and at least one port (24) in the cylindrical shaft (22) through which comminuted material may flow into the interior channel (23), of the cylindrical shaft (22). The interior channel (23) of the cylindrical shaft (22) may communicate with the exterior of the container (1) so that the comminuted or homogenised sample that has passed through the port(s) (24) of the cylindrical shaft (22) may be removed from apparatus. In one embodiment the comminuted or homogenised sample is removed by aspiration.

WO 2005/047866 A1



FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*